REPORT

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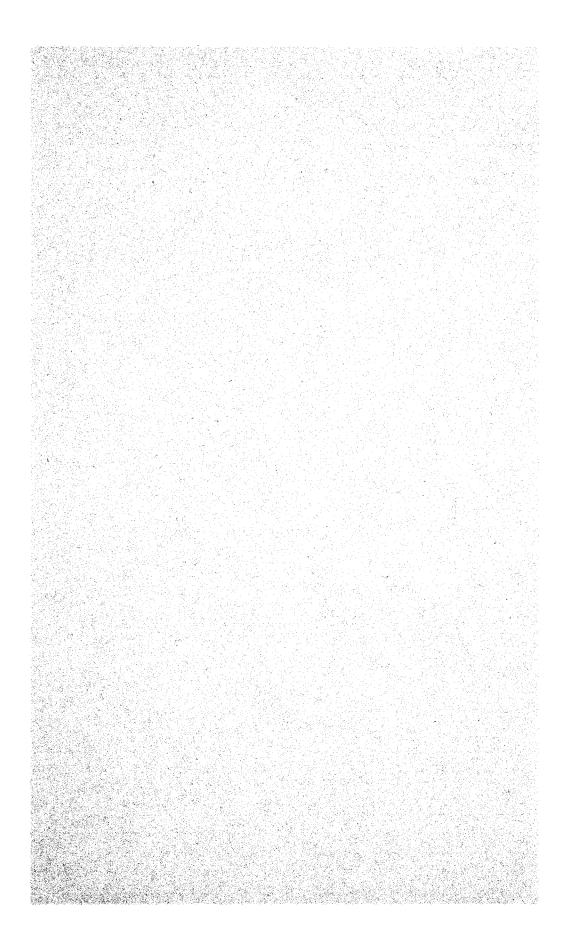
LOCAL BOARD OF HEALTH

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OF ALBERTA



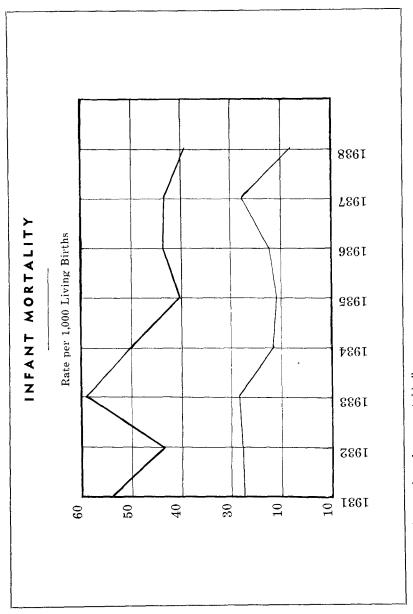
CITY OF EDMONTON
ALBERTA

1938



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BOARD OF HEALTH, 1938	A. E
Dr. R. M. Shaw, Chairman Dr. E. A. Roe Ald. A. Bissett Dr. W. Morrish (Public School Board) Ald. F. C. Casselman Mr. J. O. Pilon (Separate School Board)	k
EX-OFFICIO MEMBERS: Mayor J. W. Fry Dr. G. M. Little, M.O.H. Mr. A. W. Haddow, City Engineer S. Main, Secretary 1939	
Dr. R. M. Shaw, Chairman Dr. E. A. Roe Ald. F. C. Casselman Dr. W. Morrish (Public School Board) Ald. S. Parsons Mr. C. E. Gariepy (Separate School Board)	
EX-OFFICIO MEMBERS: Mayor J. W. Frv Dr. G. M. Little, M.O.H. Mr. A. W. Haddow, City Engineer S. Main, Secretary	
Medical Officer of HealthG. M. Little, M.D., D.P.H.SecretaryS. Main, A.R. San. I.Chief Health InspectorW. R. Graham, R. San. I. (Cert.)Health InspectorJ. H. Blackburn, A.R. San. I.Health InspectorA. P. Methuen, A.R. San. I.Health InspectorJ. D. WilliamsQuarantine OfficerR. T. Anderson, A.R. San. I.Chief Food InspectorJ. H. Part, V.S., M.D.V.Meat InspectorD. Morrison, V.S.Dairy SupervisorC. Ellinger, M.R. San. I.AnalystH. C. Graham, B.A.StatisticianMiss B. B. MurrayPublic Health NurseMiss S. C. Christensen, R.N.Public Health NurseMiss S. C. Christensen, R.N.ClerkMiss C. R. Rose	
Stenographer Miss Dorothy Derbyshire Junr. Inspector Lloyd Alexander	
Stenographer Junr. Inspector Miss Dorothy Derbyshire Lloyd Alexander CONTENTS: Page	
Stenographer Miss Dorothy Derbyshire Junr. Inspector Lloyd Alexander CONTENTS:	

AL EDM B10 R262



Light line-"Diseases largely preventable."

Annual Report of Medical Officer of Health

Chairman and Members of the Local Board of Health.

Gentlemen:

Herewith are submitted reports from the various services conducted by this Board during 1938, and also from certain voluntary and official health agencies who have worked in co-operation with us during the year.

The general death rate showed no change from that of 1937, remaining at 7.9 per thousand. Deaths from heart disease and cancer showed moderate increase, while the increase from pneumonia was very considerable. It is expected that new treatment now available for the latter disease will reduce its mortality rate during the coming year. There was a marked reduction in the number of deaths from influenza and accidents, while the infant mortality rate was the lowest yet recorded for the city. This steadily diminishing death rate of our infants is, I believe, a reflection of the increasing pre-natal and post-natal supervision given mothers and infants by private physicians and our public health nurses.

The total number of cases of communicable diseases was increased by an epidemic of mumps, which gave 5,725 cases. This disease is mild, and no deaths or serious complications were reported. Cases of scarlet fever and measles showed marked reduction from the previous year. Eighteen cases of diphtheria were recorded during 1938. Twelve of these cases occurred in January and were directly traceable to contacts from an outside point that previously had a case of the disease in their home. Obviously, proper precautions were not taken in connection with these people, and the incident serves to illustrate the danger to our citizens when surrounding areas are not provided with proper health supervision.

The Kinsmen's Club continues its valuable service in supervision of cases and contacts of tuberculosis.

Our citizens have neglected vaccination against smallpox until a potentially dangerous situation now maintains. We are attempting to make parents aware of the need for protecting their children against this disease.

The number attending child welfare clinics was increased during the year.

The need for low cost housing continues to be an urgent problem. The present congestion in many unsuitable quarters greatly increases our problems in sanitation, communicable disease and general physical and mental health. Many complaints are received regarding housing which does not meet our health regulations. We are faced with the impossible situation of dwellings which should be condemned, but no other suitable accommodation being available to the tenants of such dwellings.

General sanitation leaves something to be desired in that numbers of our lanes are periodically strewn with garbage. This appears to be due chiefly to the lack of proper containers and failure to fix containers so they cannot be upset. We are asking householders to co-operate in overcoming this health hazard by meeting the requirements of the City by-law governing the matter. Garbage dumps within the city limits have been a source of persistent complaint. Steps are being taken for the elimination of these dumps as rapidly as practicable.

Supervision of the city's food supply, as indicated by the enclosed reports, constitutes a considerable volume of work. With few exceptions, we have re-

ceived excellent co-operation from those engaged in handling foodstuffs. The amount of food condemned as unfit for human use showed marked reduction from the previous year.

The high standard maintained in the milk supplied to our citizens is an outstanding credit to our Dairy and Laboratory branches, and an indication of the responsibile co-operation of our milk producers. Following ten cases of undulant fever which occurred amongst our citizens in 1937 and January of 1938, the Local Board of Health tested for this infection all cows from which milk was delivered directly to consumers. Reactors were removed from these dairy herds, and since this step was taken only one case of human infection has developed in the city. In this case the evidence pointed to an unauthorized milk supply as the source of the infection. We are indebted to the Provincial Laboratory for their co-operation in carrying out the technical work in connection with this problem.

This Department has co-operated with the University and Nursing schools of the city in the teaching of public health and we have made our facilities available to students for observation of practical work.

Yours respectfully,

G. M. LITTLE,

Medical Officer of Health.

EXPENDITURE

Salaries		\$ 31	37 ,289.60
Supplies	1,196.08	1	306.91
Transportation	5,061.74	4	,844.53
Sundries	826.97		578.35
Uniforms	123.57		176.50
Retirement allowance	1,000.00		
Bath house	 569.36		
	\$ 39,884.49	\$ 38	195.89
REVENUE			
Inspection fees	729.75		595.50
	\$ 39,154.74	\$ 37	600.39

DIVISION OF EXPENDITURE

		Adminis- tration	Communicable Disease	Laboratory Service	Milk Control	Food Inspection	Public Healt h Nursing	Sanitation	Vital Statistics	Totals
Salaries	\$	7,484.46	\$2,723.90	\$3,146.45	\$2,091.37	\$2,961.66	\$3,376.08	\$8,052.54	\$1,270.31	\$31,106.77
Retirement Bonus Supplies Transportation		1,000.00 474.73 440.00	$335.51 \\ 526.93$	207.76 505.84	29.90 1,200.00		24.97 587.38	92.13 1,119.09	16.11	1,000.00 1,196.08 5,061.74
Phones		107.70			18.00	15.00	18.00	77.40		312.30
Sundries . Uniforms		101.49	25.64	59.27	265.95	36.72	19.25	6.35		514.67
Bath House			21.72			21.73		80.12 569.36		123.57 569.86
	8	9,608.38	\$3,694.90	\$3,934.32	\$3,605.22	\$3,732.58	\$4.025.68	\$9,997.00	\$1,286.42	\$39,884,49
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SUMMARY OF STATISTICS

Area of City (including 1,000 acres of water), 26,778 and 2,147 acres in Parks.

	1938	1937	1936	1935	1934
Population	88,887	87,034	85,696	81,621	79,773
Persons per acre of land	3.42	3.34	3.32	3.16	3.10
School enrolment	18,245	17,885	18,396	18,241	18,307
Natural Increase of population	893	892	738	776	789
Cost per capita	.44	.43	.42	.39	.42
Births, excluding stillbirths	1,602	1,565	1,432	1,394	1,383
Rate per 1,000 population	18.	18.4	16.84	17.42	17.28
Stillbirths	30	42	50	23	37
Rate per 1,000 births	18.7	26.13	33.75	16.23	26.05
Deaths, excluding stillbirths	709	673	694	618	594
Rate per 1,000 population	7.97	7.9	8.16	7.7	7.42
Deaths under 1 year of age	63	68	63	56	70
Infant mortality rate per 1,000 living					
births	39.3	43.45	44	40.17	50.61
Deaths from childbirth	4	3	6	7	5
Maternal mortality per 1,000 births	2.5	1.9	4.18	5.02	3.6
Marriages	1,653	1.492	1,414	1,312	1,313
Rate per 1,000 population	18.57	17.55	16.63	16.40	16.4
Non-resident births in city	1,203	1,132	948	936	791
Non-resident deaths in city	472	480	443	402	325
Non-resident deaths under 1 year	40	52	33	36	34

VITAL STATISTICS

Births

There were 1,602 City births in 1938, 789 male and 813 female, an increase of 37 over 1937, when there were 1,565 births, 744 male and 821 female.

Born in institutions, 1,549, or 96.7%; born at home, 37.

Attended by physician, 1,596; attended by Victorian Order of Nurses, 37 unattended, 5; double births, 15.

Maternal parentage:

	1938	1937
Canada	1,073 or 67 %	1,008 or 64.5%
British Isles	211 or 13.2%	268 or 17.1%
Europe	197 or 12.3%	174 or 11.1%
U.S.Â	113 or 7.0%	110 or 7.0%
Other countries	8 or .5%	$5 \mathrm{or}$ $.3 \%$
	1,602 or 100 (1,565 or 100 %

Seventy-eight or 4.9% of the 1938 births and 82 or 5.24% of the 1937 births were illegitimate.

Stillbirths

Male, 17; female, 13; total, 30. Born in hospital, 27; at home, 3; unattended, nil.

Causes of feetal deaths:

Dystocia, 18.

Malformation, 2.

Prematurity, 3.

Other diseases or condition of mother, 7.

Deaths

Male, 414; female, 295; total, 709; an increase of 36 over 1937, when there were—male, 389; female, 284; total, 673.

	1938	1936
Canada	303 or 42.7%	328 or 48.7%
British Isles	213 or 30.0%	179 or 26.6%
Europe	123 or 17.4%	$92 ext{ or } 13.7\%$
U.S.Ā.	55 or 7.8%	48 or 7.1%
Other Countries	15 or 2.1%	26 or 3.9%

Deaths under 1 year of age— Male, 34; female, 29; total, 63.

Infantile mortality rate per 1,000 living births, 39.3.

In 1937 there were-

Male, 37; female, 31; total, 68.

Infantile mortality rate per 1,000 living births, 43.45.

Infant Mortality

Classifying the causes of deaths under one year of age from standpoint of preventability:

Class 1—Causes to a great extent non-controllable—premature birth (under 7 months), congenital debility, congenital malformation.

Class 2—Capable of reduction by hygiene, sanitation, isolation and treatment—tuberculosis, syphilis, acute respiratory diseases, acute infectious diseases.

Class 3-Capable of great reduction through care, proper feeding, pre-natal care—marasmus, acute gastro-enteritis, injuries at birth, premature (over 7 months).

Of the 63 cases under one year of age:

Class 1—24 or 38.1%. Class 2—13 or 20.6%. Class 3—26 or 41.3%.

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			90- 95 Diseases of the heart .	Cancer	107-109 Pheumonia	163—196 External Causes	158-161 Early Infancy	Apoplexy	130132 Nephritis Acute and Unronic	Tuberculosis	Influenza	121 Appendicitis	Malformation	119-120 Diarrhoea	140145 Puerperal State	Totals	Other Causes	Total	Total deaths	"Y" Denotes outside deaths of Edmonton Citizens
			95	53	601	96	191	23	132	32	Π	121	157	120	145					Dano
			-06	45 53	107—1	163—]	158—]		130	23 32		_	-	119—1	1401					
							•		•						. •					•

"X"-Denotes outside deaths of Edmonton Citizens.

MORTALITY FROM HEART DISEASES 1934 TO 1938

V	Total Deaths	Deaths from	Percent of Total Deaths	Rate Per 100M Population
Year		Heart Diseases	Total Deaths	ropulation
1938	709	128	18.05	143.8
1937	673	115	17.08	135.3
1936	694	119	17.2	140
1935	618	100	16.2	125
1934	594	112	18.8	140

Of the 1938 deaths 83 were male and 45 female.

MORTALITY FROM CANCER, 1934 TO 1938

		Total	Deaths from	Percent of	Rate Per 100M
Year		Deaths	Cancer	Total Deaths	Population
1938		709	99	13.9	111.2
1937		673	82	12.2	96.5
1936	/	694	93	13.4	109.4
1935	***************************************	618	87	14	108.75
1934		594	82	13.8	102.5

Of the 1938 deaths 42 were male and 57 female.

MORTALITY FROM PNEUMONIA, 1934 TO 1938

	Total	Deaths from	Percent of	Rate Per 100M
Year	Deaths	Pneumonia	Total Deaths	Population
1938	709	58	8.2	65.2
1937	673	35	5.2	41.2
1936	694	41	6	48.2
1935	618	34	5.5	42.5
1934		32	5.3	40

Of the 1938 deaths 41 were male and 17 female.

MORTALITY FROM TUBERCULOSIS, 1934 TO 1938

Year	Total Deaths	Deaths from Tuberculosis	Percent of Total Deaths	Rate Per 100M Population
1938		26	3.7	29.2
1937		25	3.7	41.2
1936	694	22	2.1	23.9
1935		27	4.4	33.7
1934	594	17	29	91

Of the 1938 deaths from tuberculosis (all forms) 17 were male and 9 female.

There were 37 new cases of tuberculosis (all forms) reported and 26 deaths, giving an increase of 11 cases.

MORTALITY FROM EXTERNAL CAUSES, 1934 TO 1938

Year	Total Deaths	Deaths from External Causes	Male	Female	Suicide	Homicide	Accidental	Percentage of Total Deaths	Rate Per 100M Population
1938	709	41	31	10	12	6	23	5.8	41.6
1937	673	52	39	13	14	1	37	7.7	61
1936	694	51	40	11	8		43	7.3	60
1935	618	39	27	12	10	1	28	6.3	50
1934	594	49	44	5	13	2	34	8.3	61

MATERNAL MORTALITY

There were four maternal deaths. The maternal death rate calculated in the usual manner of proportion of maternal deaths to the number of live births gives a rate of 2.5 per 1,000 living births. None of the maternal deaths were associated with living births. One was abortion and three no birth. The maternal death rate for 1937 was 1.9.

COMMUNICABLE DISEASE DEATHS

There were 8,315 cases of communicable disease reported during the year 1938, of which 4,214 were males and 4,101 were females; compared with 5,821 cases in 1937, of which 2,881 were males and 2,940 were females.

The morbidity rate per thousand of population was 93.3 compared with 68.5 for 1937.

	19	38	19	37
	Cases	Deaths	Cases	Deaths
Poliomyelitis	. 7	2	7	
Diphtheria	. 18	4	3	1
Encephalitis Lethargica		2	1	2
Scarlet Fever	484	2	684	4
Whooping Cough	. 49	1	257	2
Pneumonia (lobar)	17	28	6	14
Tuberculosis	. 37	26	61	25
Syphilis	61	4	66	1
Meningitis	. 4		1	1
Measles	465		2,562	3
Erysipelas	28		49	4
Puerperal Septicæmia			1	1

Altogether reportable disease was responsible for 9.87% of the total deaths, 709.

ISOLATION HOSPITAL

Seven hundred and nineteen patients were admitted and 83 carried over from 1937, making a total of 802. There were 703 discharged; 30 died, and 69 remained at the end of the year.

remained at the end of the year.							
Erysipelas 3	6 0 0	Polio Polio	oid myelitis -suspect ns.	,			17
T. B. Meningitis	6 1 6	Dipht	myelitis theria phalitis				6
IMMU	NIZATI	ON					
1937—Board of Health 93 Public School Board R.C. Sep. School Board	1,082 238	S Diphtheria & S Scarlet Fever	3,411	2. Whooping	Schick Test	28 Dick Test	Typhoid
1938—Board of Health 180 Public School Board		575	47	14	86	3	7

172 2,344

575

47

14

86

5

7

R.C. Sep. School Board .. 159

COMMUNICABLE DISEASE 1938-1934

			POP	ULA'	TION, 1	938	-89,000)		
	193 C	8 D	193°	7 D	1936 C	D D	193 C	5 D	193 C	4 D
Anterio Poliomyelitis	7	2	7		3	1	34	2	1	1
Cerebrospinal Meningitis	4		1	1	1	***	1		1	
Diphtheria	. 18	4	3	1	6	1	7	1	3	
Diphtheria Carriers	. 9		1		,		19			
Encephalitis Lethargica		2	1	2		1			1	
Scarlet Fever	484	2	684	4	362	4	148	2	63	
Smallpox					1					
Chickenpox	.1083		1132		1286	1	994		529	
Measles	465		2562	3	1176	1	3105	1	32	
Mumps	5725		350	,	123		236		554	
Rubella	. 28		330		5384	1	10		4	
Whooping Cough	49	1	257	2	1243	10	190		715	1
Actinomycosis			1							
Erysipelas	. 28		49	4	58	5	42	4	24	3
Ophthalmia Neonatorum					1					
Pneumonia Lobar	. 17	28	6	14		15	6	19	5	12
Puerperal Septicaemia			1	1		-		1		
Septic Sore Throat	. 7		4		5		4		2	
Trachoma			1							
Tuberculosis (Pulmonary)	34	17	60	20	63	15	72	21	43	11
Tuberculosis (other forms)	. 3	9	1	5	5	7	7	6	6	6
Tularaemia									2	, .
Typhoid	5	1			21	4	3	2	1	
Typhoid Fever Para	4		2				1	1		
Undulant Fever	. 2		8		1					
Venereal Disease-										
Chancroid							15		24	
Gonorrhoea	282		287		252				277	
Syphilis	61	4	66	1	91	11	102	8	78	5
Totals		70	5814	58	10082	78	5246	68	2363	39
Non-notifiable										
Influenza		19	7	47		36		18		13
Mycosis		1.0	٠	*'			*****			
Trench Mouth						1				
A PORT OF ATAM MALE TO THE PROPERTY OF THE PRO	3						7		4	
Total deaths, all causes		709		678		694		618		594
Morbidity rate per 1,000 population		93.4		68.4	1	18.6		65.6		29.5
C-Cases. D-Deaths.										

COMMUNICABLE DISEASE REPORT BY AGES AND SEX FOR 1938

	Total	¥	ഥ	Under 1	7	63	ಣ	4	70	6	15 24	25 44	45 59	69 63	70 Over
Anterio Poliomyelitis	7	4	60	::		:	-	:	1	80	27				
Cerebrosninal Meningitis	C3 =	.;	. -	:	:	,		:+		81	· 	:		:	:
Diphtheria	¥ 84	9	12	· ·		٠ .	. c1		. 63	; ∞	4 4	1			
Deaths	4	-	ec.		:	:	-	;	থ	:	:	-	:	:	
Diphtheria Carriers	6	4	rc	:	:	:	-			4	en	:			:
Deaths	: °		-	:			:	:		:	:	:	-	; -	:
Scarlet Fever	484		251		· 9 :	13	42	29	41	240	. 63 . 00	27	600	ł :	
Deaths	01.0		: 0	: 5			- :		: 1	7	: :	1	:	1	:
Measles	~		999	4 c 2 c		61 7 4	4.5	- -	9 0	670	41	۵. ا	:	:	::
Mumps	5725 2	2880 2	2845	101	30	104	182	218	262	3968	635	285	53	:01	
Rubella	nc.		10		က	01	61	-	5 0	11	70				
Whooping Cough	6,		31	ro t	ro	t~	රා	9	o.	90	:	:	:		
Ervsipelas	: = 00	15	- 6°	es			:	:	:		:		19		
Pneumonia Lobar	11	11	9	•			:	-		1 4	0 00	2 62	2 9	4 –	•
Deaths	60 80 80	17	11	-			:			-	, ,,	∞	00	9	:00
Septic Sore Throat	7	က	4				H	-	:	ಣ	1	1	:		
Tuberculosis (Pulmonary)	34	27	22		:	:		:		ລວ	11	10	9	1	ಯ
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Typhoid Fever	or c	0 01	9 00						:	: -		4 67	*	:	:
Deaths		:	-	:			1		:	:		-			
Typhoid Fever (Para)	4	010	21	:	:			:	:	61	H	-			
Undulant Fever	20		:	:					:	:	:	:	67		
Gonorrhoea		208	7.4	-						-	132	132	60	67	
Syphilis. Deaths	61	4 6	15				:		П	67	νo	21	27	10 -	٦
Total cases reported	8315 4	١.	1101	102	106	233	348	320	434	5147	953	540	66	1	1 9
Total Deaths		44	26	2			67		2	4	4	21	17	15	9
Pre-school cases								1593 or 19.1 %	19.1%		X147	60			
Adult cases											1 # 7 0	0/ 70 10 1 4 7 0	15	1575 or 18.9 %	8.9%

1938
FOR
SEX
AND
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ΒY
REPORT
DISEASE
VICABLE
COMMUN

	Total	×	<u> </u>	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Anterio Poliomyelitis.	-	4	က	-	:	:	:	:::		ı	က	2		:	:
Deaths	. 23	7		:				:	:	:	67	:	:	:	:
Cerebrospinal Meningitis.	4	ಣ	-	:			_		:	:			:	٠,	:
Diphtheria	18	œ,	12	12	۰.,	:	_	:	:	μ,	:	-	-	-	
Deaths	→ (4 ·	60 1	c 1			:	:	:	-	:	:	: 6	:	
Diphtheria Carriers	ئ ە	4	æ		₹"	:	-4	:	:			-	77	:	
Encephalitis Lethargica	•	-	y-	-											,-
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Chickennox	1083	503	580	150	ئر د	10	55	7.1	8	89	39	80	95	164	190
Measles	465	242	223	00 L-	67	12	43	106	84	62	870	က	-	:	ಣ
Mumps	5725	2880	2845	809	1077	1393	1227	785	347		7.9		24	17	17
Rubella.	. 28	8	10	4	7	rc	:	œ	63				2	2	H
Whooping Cough	49	18	31	11	:	70	_	-	ಛ	t-	7		61	œ	
Deaths	-		→ ;			:	:	•	: `	:	:	: (: (:
Erysipelas	170	22	 	9	ez	ec	,	27	-	_		21	50 6	· ·	20
Pneumonia Lobar	17	11	9	: (:	:	(: '	:	:		7	4	5 1 (
Deaths	200	17	Ξ.	21	90	٦,	m	m (-			G.	:	9	0
Septic Sore Throat	:	m ;	4 6	:	:	0		:O C	: •	:	₹ 0	:			:
Tuberculosis (Pulmonary)		7 -	77	N 0	200	N ~	4 -	.o. −	- -	4.0		· -	7	000	4
Deaths	- F	; °	۰,	7	1	4 -	~	-	-	4	:	7	7	1	c
Tuberculosis (other forms)	• o	N 4	- 6	-	:	4	:	:		6	-				4
Tenhoid Fever) 1 0	61	9	1 63			1	-	1	ı :	-	-	1		
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Typhoid Fever (Para)	4	67	23				:	ಣ							
Undulant Fever		67	:	Н	:	:	:	:	:	:	:	:	-	:	
Venereal Diseases	4		i	,	,	į	,	•		į	,	1	į	į	•
Gonorrhoea	282	508 7	 	6 T	19 9	70	e ~	× ×	30	6 6	91	× ×	2.5	(- 0	99 27 14
Deaths	. 4	4		' :	-	r :	:	-	; :	• :	٠:	:		-	• :
Total Cases	8315	4214	4101	958	1285	1588	1390	1052	598	326	181	140	203	297	293
Total Deaths	10	44	56	æ	œ	22	re	2	4	9	နာ	7	4	6	4

"KINSMEN'S" TUBERCULOSIS NURSING SERVICE

Visits	
Total visits made by nurse	2,348
Visits to T.B. cases	867
Visits to suspect cases	239
Visits to contact cases	,000
Co-operative visits	157
Not seen, moved, etc.	89
Contacts of T.B. visits	
Total number of cases at end of month	308
000	
Office— Number of visits to office	101
Letters written	10
Clinic Report—	
New Cases:	
Active Cases. City	22
Country	23
Suspects City	35
Country	34
Contact City	
Country	
No Contact City	
Country	
Total	438
Other Cases:	
Admitted to T.B. section	44
Died	9
Discharged Improved	33
Discharged Improved Left Alberta	5
Total Examinations.	726
Total X-rays	809
Tuberculin:	0.25
Total tests made	365

PUBLIC HEALTH NURSING

MENTAL HYGIENE CLINIC

EDMONTON—Dr. W. J. McAllister, Superintendent of the Provincial Mental Institute, was in charge of the actual clinics in this centre during 1938. Forty-one clinics were held as compared with forty in 1937. Fifty-seven new cases were dealt with and 136 follow-ups made. This shows some decrease over the clinic load in 1937. In May of 1938 the Baby Clinic moved into the quarters prepared at 10182 - 100th Street. The Mental Hygiene Clinic is using the same accommodation and finds it much more satisfactory than the previous quarters.

CHILD WELFARE CLINICS

These clinics are held twice weekly with physicians in attendance. A weighing clinic is held once a week under the direction of the Provincial Department of Health nurse in charge.

	1938	1937	1936	1935	1934
Number of clinics held	100	95	100	92	102
Babies in attendance	,860	3,567	3,686	3.306	4.066
Pre-school attendance	,103	1,167	1,261	1,022	1,158
Total4	,963	4,734	4,947	4,328	5,224
Average	49.6	49.8	49.47	47.0	51.2
New cases admitted (babies)	860	817	808	714	779
New cases admitted (pre-school)	148	189	178	142	196
Babies referred to family doctor	22	65	35	46	63
Pre-school referred to family doctor	49	75	63	27	61

Dr. J. Calder, Dr. F. J. Follinsbee and Dr. Mildred Newell were in attendance to examine and advise parents regarding infants' care and feeding.

Medical students, public health nursing students and nurses in training from the University and Royal Alexandra Hospitals, as well as home economic students, have been in attendance at the clinics.

Ninety-eight out-of-town cases attended during the year.

In May the clinic was moved from the Civic Block to 10182 100th Street. The new quarters are commodious and satisfactory in every way.

Forty-five pre-natal cases received special instructions and visits have been made to diabetic cases, children's shelters and private nursing homes. Creche meetings have been attended and cases investigated as to eligibility of Creche services.

Two thousand, nine hundred and eighty-two home visits were made.

WEIGHING CLINICS

	1938	1937	1936	1935	1934
Number of weighing clinics held	50	46	47	45	50
Total attendance	675	501	485	615	743
Average	13.5	10.9	10.3	13.7	14.8

Fifty weighing clinics were held. No new cases are admitted at these clinics as no doctors are in attendance. Parents are given advice on matters of routine care by the nurse on duty.

Attendance According to Age at Both Child Welfare and Weighing Clinics

Babies under 1 year	26	3047	1936 3152 898	1935 2697 948
442	25	3950	4050	3645
Pre-school under 7 years	13	1285	1298	$\overline{1382}$
Total 568	38	5235	4943	$\overline{5432}$
<u> </u>				

It is particularly gratifying to have to report that the infant mortality rate for this year has been reduced to 39.3 per 1,000 living births; i.e., the lowest point attained in the quinquennial period just ending. I am of the opinion this result has been brought about by the following causes: (1) By the decided increase in pre- and post-natal visits made by your staff, and (2) By the definite amount of slum clearance that has been effected within the past few years.

Many problem cases of a domestic nature were straightened out to the satisfaction of all concerned.

PRE-NATAL VISITS

	1934	1935	1936	1937	1938
City nurse	291	388	316	404	460
V.O.N	. 253	251	222	250	257

There were 184 new pre-natal cases in 1938 added to our roll.

The Red Cross Society and Junior Hospital League as in the past supplied very many layettes and also milk and bedding for needy families. Both of these organizations have done remarkable philanthropic work and are deserving of the thanks of all our citizens. The Relief Departments have also, when called upon, co-operated splendidly.

		1- 3 Months		: :	07 	. 4	: :	. 61	61	: :	1	-01-	16
	AGE	Fotal Under I Month		:	' . :	: :	: :	ಜ ಗ	- :	3 3	9	: :	35
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INFANT MORTALITY, 1938		lingA			٠.	: :		: :	٠.'	⊣ :	: :	: :	C1
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			Whooping cough Influenza with other causes.	Enlarged Thymus	Eroncho pneumonia "D" Type Lobar pneumoni	Enteritis or Diarrhoea	Intussuscept	Spina Bifida Congenital Malformation of	Congenital Malf Congenital Debil	injury at Birth	Atelectasis. Icterus of the newborn	 No cause given, no doctor in attendance Accidental suffocation Injury by animal (dog) 	
			Vhoc	Kickets Enlarge	D.	Inter	ntus	ong	Suo	njur	cteri	o ca ccid njur	
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			111	67	107a 108 118	119	122	157	158 158	160b	161b-	182 182 188	

POST-NATAL VISITS

	1934	1935	1936	1937	1938
City nurse	139	201	172	239	270
V.O.N	448	646	620	352	603

Visits classified as post-natal are those visits made to homes during the first six weeks after confinement.

All new mothers are encouraged to breast-feed their babies. However, in spite of such advice, artificial feeding is often resorted to. Much work remains to be done along this line. All mothers are advised of the necessity of a post-natal examination by their physician at the end of six weeks.

DISTRICT VISITS

	1934	1935	1936	1937	1938
Visits to homes	.3481	3753	2508	2775	1170
Special investigations	65	64	94	113	154
Total	. 3546	3817	2602	2888	1324

During the year household economic internes gave valuable assistance in directing diets and food budgeting in many homes. An interne accompanied your senior nurse a half day weekly and assisted in solving various food problems.

Each nurse taking the public health post graduate course at the University spent two days with our department. All members of our staff cooperated in trying to make these visits worthwhile.

DISABILITIES FOUND DURING DISTRICT VISITS, 1938

		Babies	Pre- School	School Age	Adults
I.	Infectious and Parasitic Diseases	10	24	22	17
II.	Cancer and Other Tumors				
III.	Rheumatic Diseases, Diseases of Nutrition and of Endocrine Glands and other general diseases		1	1	10
IV.	Diseases of the Blood and Blood Forming Organs				
v.	Chronic Poisoning				
VI.	Diseases of the Nervous System and of the Organs of Special Sense	2	2 2 2		4
VII.	Diseases of the Circulatory System		****	1	23
VIII.	Diseases of the Respiratory System	18	25	3	21
IX.	Diseases of the Digestive System	17	60	20	12
X.	Diseases of the Genito-Urinary System		4	1	3
XI.	Diseases of Pregnancy				9
XII.	Diseases of the Skin and Cellular Tissue.	25	17	9	9
XIII.	Congenital Malformation	1	1		
XV.	Diseases of Early Infancy	5			
XVI.	Senility			****	1
XVII.	External Causes	1	3		
XVIII.	Not Specified				3

HEALTH INSPECTIONS

INSPECTIONS				
193	-	1937		1936
Inspections		$\frac{17,26}{3,80}$		10,868 2,920
Re-inspections 3,0 Notices, total 6,1		6.54		4,426
Written		2,21		1,232
Verbal 4,5		4.32		3,194
	03	70		413
	67	51		295
Unjustified 1	36	19	90	118
	20 95			
•	30		• •	
License applications investigated 1,3	10	1,30	19	1,259
-	10	1,00	-	1,200
HOUSING	13	•	3 1	
During the year regular inspection was made of a houses, apartments, hotels, etc.	li rooi	ming	and I	odging
193	8	1937		1936
Sewer and water notices issued	63	11	0	6 0
Sewer and water installed, buildings removed, etc	24	2	5	11
Extension of time granted	17	_	2	16
Nothing done	22	` 5	_	33
Plumbing permits issued	58	12		149
	10	-	1	20
Alterations to existing plumbing	60	b	52	
DISINFESTING STATION		400		
193		1937		1936
Baths		22,53		28,551
· · · · · · · · · · · · · · ·	78 39	75	7	$\frac{37}{1,025}$
Disinfested 6	$\frac{35}{12}$	78	•	1,025
Men washed clothing 18,1		19,13		22,961
Units washed 54,7	86	57,39		67,048
SCAVENGING				
		193		1937
		cu. y	yds. c	u. yds.
Refuse removed from North Side Refuse removed from South Side		5,1 1,2	68 80	6,870 1,100
COWSHEDS, STABLES, ETC.				
During the year 535 private cow owners paid the	ir anı	าบลไก	ermi	ts and
inspections were made of their premises.		, au	, , , , , , , , , , , , , , , , , , , ,	os and
FOOD	1090	10	197	1000
Samples submitted to Provincial Laboratory Foodstuffs condemned (lbs.)	1938	. 15	937	1936 8
Foodstuffs condomned (lbs)	16 670	. 20	29 299	2,745
Fourteen thousand, seven hundred and seventy-on	e non	nds o	f foo	detuffe
were condmned due to being damaged by fire and wat the above.	erano	l are	inclu	ded in
WATER				
		1938	1937	1936
Water samples taken		62	60	71
Negative	4 3			
*Positive	8			
*Suspicious	11	-	_	_
Ice samples taken	e	5	2	2
Negative Rinse water samples taken	Đ	55	73	
thise water samples taken	•••••	00	10	••••

Ice cream dipper rinse waters	 		33	3
19 over 50,000—notified.				
Bottling works rinse waters			22	2
All negative.				

* In all cases where samples were Positive or Suspicous, the wells were chlorinated or placarded as unfit for use and in many cases retest samples were taken which were Negative.

INFECTIOUS AND CONTAGIOUS DISEASES

During the months of April and May the health inspectors spent considerable time in assisting the quarantine officer in quarantining and releasing homes from quarantine. Also investigated by the inspectors throughout the year were cases of tuberculosis, goitre, trench mouth, typhoid fever, scabies, venereal diseases, etc.

INDUSTRIAL HEALTH SERVICE

Besides the regular inspections of working conditions in business premises, a special survey of the plumbing in the business sections of the city was carried out. In all, 990 inspections were made. Two hundred and fifty-seven inspections were made by the health inspectors of premises, included in the above survey, where it was thought a notice to repair plumbing, etc., might be required. To date 62 notices have been issued.

RELIEF

D. (

As in the past few years, considerable time was spent in investigating appeals for relief, and valuable assistance was once again given by the various charitable organizations in supplying bedding, clothing, etc.

ENFORCEMENT OF REGULATIONS

In connection with the above prosecutions, convictions were received in both cases and the defendants were fined \$5.00 and costs. One prosecution was under By-law 9, section 35, keeping pigs without a permit, and the other, a fish peddlar who was selling tullibee as whitefissh.

FOOD INSPECTION

January 1st, 1938, there were four abattoirs under city inspection. On September 12th one of these ceased to operate and was demolished. During the year there has been a change in ownership of all the remaining three, and in one extensive alterations are still in progress.

The decline in the percentage of hogs found to be infected with tuberculosis is again noticeable. The percentage of cattle found to be infected with tuberculosis, on the other hand, has increased. Speaking generally, the quality of animals slaughtered during 1938 has shown marked improvement during the year.

MEATS INSPECTED AND CONDEMNED

1937	1936
2.806	3.055
14	11
396	357
15,216	9,982
2,373	3.368
7	8
43	45
1,489	1,739
1,701	2,102
5	´ 3
151	203
612	672
	2,806 14 396 15,216 2,373 7 43 1,489 1,701 5 151

Pork		1938	1937	1936
No. of carcases inspected		2,534	2,068	2,113
Carcases condemned			$\begin{array}{c} 28 \\ 493 \end{array}$	$\frac{26}{551}$
Weight (lbs.) of carcases and portions condemned	**	. 8,828	9,801	10,936
Totals		ŕ	,	,
No. of carcases inspected		10,152	8,948	10,639
Portions condemned		$\begin{array}{c} 40 \\ 913 \end{array}$	$\frac{54}{1,083}$	$\begin{array}{c} 48 \\ 1.156 \end{array}$
Weight (lbs.) of carcases and portions condemned			27,118	23,329
CARCASES FOUND TO BE INFECTED WIT			osis	,
Beef		, DEI(COE	03.3	
Infected		13	5	15
Percent		.390	.019	.45
Infected		264	253	300
Percent		10.46	12.23	13.95
CHIEF CAUSES OF CONDEMNATI	0N,	1938		
Beef and Veal	arcas	es Porti	ons V	Weight
Abscess liver		108	1,	,352 lbs.
Abscess multiple	1	15		635
Actinomycosis Adhesions	1	$\frac{146}{93}$	-,	,845
Adhesions	1	18	,	,151 ,000
Parasites		18	_,	197
Bruised	3	15	-,	56 3
Emaciation	2			750
Pneumonia	2			500
congestion, extensive injuries, immature)	7	2	2,	610
	17	416	13,	603 lbs.
Mutton Parasites		77		180
Bruised		12		65
Miscellaneous (abscess liver, empyemia, peritoni-				00
tis, abscess multiple)	_3	4		175
D-al.	3	93		410 lbs.
Pork Adhesions		16	-	185
Bruised		35		486
Contaminated		31		355
Parasites		39		137
Tuberculosis Abscess multiple	4 5	272		860 870
Pneumonia	2			380
Peritonitis	4			630
Putrification Miscellaneous (abscess liver, empyemia, peritoni-	• • • •	10	1	105
cer, septicæmia, frost)	5	1	:	820
,	20	404		828 lbs.
Totals				
Beef and Veal	$\begin{array}{c} 17 \\ 3 \end{array}$	416	13,6	
Pork	20	93 404		410 8 2 8
	40	913		
DISEASED ANIMALS	40	913	22,8	841 lbs.
Beef and Veal				306
Mutton	· · · · · · · · · · · · · · · · · · ·	······		72
Pork				372
(Totals for diseased animals are approximate obtained for the first four months of the year.)	only	y, as no	figures	s were
obtained for the first rout months of the year.)				

FOODSTUFFS CONDEMNED			
		Pounds-	_
	1938	1937	1936
Meat	22,841	27,118	23,329
Poultry		158	81
Fish			
Sundries		3	1
Foodstuffs condemned by Health Inspectors			
Canned goods	13	120	45
Meat		22	10
Poultry		24	10
Fish			332
		10.111	1.018
Fruit and vegetables		10,111	1,018
Candy			768
Jam			360
Pickles		19	180
Butter and cheese		19	180
Cereal	6	70	
Ice cream	0.0	60	
Sundries	30		16
Damaged by fire	14,401	18,500	
	39,661	56,111	26,155
Inspections			
	1938		1936
No. of inspections of butcher shops and abattoirs	5,345	5,557	7,464
Complaints			
Complaints received from the public	30	35	17
Complaints justified			15

DAIRY INSPECTION

The results of the reduction tests carried out weekly throughout the year of raw milk which is shipped to pasteurization plants indicated that 97.21 per cent of the samples were in Class 1 under the Standard Methods of Milk Analysis and that 94.96 per cent met even a higher standard than is at present demanded for Class 1 milk under the Standard Methods of Milk Analysis of the American Public Health Association. The difference in the high degree of compliance with the reduction time standards of 5½ and 6 hours being but 2.25 per cent. These figures refer to approximately 10,412 samples.

During the early part of the autumn the average reduction time for the class of milk referred to above was 10 hours and 27 minutes.

The three milk producer organizations whose members ship milk to the pasteurization plants have shown their appreciation of the work we are doing by offering their co-operation and active assistance in maintaining and further improving the high degree of compliance by their members with the milk regulations. This co-operation is probably unique in Canada and is greatly appreciated.

Shown herewith is a table of the classification of bacterial counts per c.c. of both pasteurized and retail raw milk. The table refers to 942 samples of milk in percentages.

No. of San	nples	10,000 and Under	11,000 to 25,000	26,000 to 100,000	Over 100,000	
409	Pasteurized		 86.79	6.84	4.15	2.22
533	Retail raw		 63.03	22.13	11.06	3.78
942	Average percentage		 74.91	14.48	7.61	3.00

The results of the abortion test of the 51 herds from which raw milk is retailed showed that 1,115 cattle were tested, 12 per cent being positive reactors.

The introduction during the year of the Phosphatase test revealed unsatisfactory conditions at two pasteurizing plants, which were quickly remedied.

The co-operation of the pasteurizing plants is appreciated in their assisting us to improve the quality of the cream by the application of the reduction test. The cream comes from nearly a hundred inspected farms and is used as table cream and in the manufacture of ice-cream. Upon our request the plants agreed to apply the reduction test to the cream as they had previously done for several years to the incoming raw milk. Previously no bacteriological tests had been made of this raw cream. Approximately 1,130 samples were tested. Following special instruction to the cream producers from this office a rapid improvement took place, reduction times of six hours and longer being not infrequent.

We express appreciation of the co-operation extended by the Department of Animal Husbandry, University of Alberta, and especially by Dr. H. R. Thornton, Department of Dairying, University of Alberta, for their assistance in experimental work in connection with the application of the reduction test to cream.

Two educational circulars relating to the reduction test were written and distributed to cream producers.

- 356 applications for permits were received.
- 343 applications for permits were granted.
 - 4 applications for permits were refused.
 - 9 permits were suspended indefinitely on account of continued unsanitary conditions.
 - 9 new permits were issued to dairy farmers who were better prepared to meet our requirements.
- 212 suspensions of producers' permits were made for a period of 3 or 4 days on account of Class 2 milk being shipped, as revealed by the reduction tests.

Inspections made, 870.

LABORATORY REPORT

The following gives a brief summary of the work done during the year. The table below showing the results of the bacterial examination of our retail milk samples, shows a continued improvement over previous years. Eighteen samples out of a total of 848 could not be counted due to the spoilage of the plates by spreaders. Of the remaining 830 samples just over 80 per cent are included in our "special" classification, which included all counts up to fifteen thousand bacteria per cubic centimeter as against 73.1 per cent for the previous year. Also an additional 11.3 per cent placed in our second column gives nearly 91½ per cent of the samples with counts not more than forty thousand per c.c.

ondicara por cu-		15,000	40,000	100,00			
	Spec.	40,000	100,00	400,000	Over	Spr.	Total
January	53	12	1			2	68
February	61	1	5		1	3	71
March	46	18	5	4	1		74
April	61	4	2			1	6 8
May	61	5	2			1	69
June	56	9	5	3	2	2	77
July	52	5	4	1	2	1	65
August	58	6	4	6			74
September	48	12	4	1	1	3	69
October	5 3	11	4	1		2	71
November	60	4	1			3	68
December	56	7	10		1		74
	665	94	47	16	8	18	848
Percentage	80.1	11.3	5.7	1.9	1.0		100

In Edmonton we have 43 raw milk distributors, some of them with a very small total sale. The pasteurizing plants also handle special jersey milk and homogenized milk. The results arranged in these classes are as follows:

			5,000		0,000		00,000					
	Spec.	% 4	10,000	% 10	0,000	% 4	00,000	%	Over	%	Spr.	Total
Raw Milk	374	71.4	85	16.2	44	8.4	14	2.7	7	1.3	8	532
Ord. Pasteurized	164	94.7	6	3.4	2	1.1	1	.6	1	.6	5	179
Jersey	67	95.7	3	4.3	0		0		0		3	73
Homogenized	60	96.8	0		1	1.6	1	1.6	0		2	64
	665	80.1	94	11.3	47	2.7	16	1.9	8	1.0	18	848

It is to be noted, however, that the great majority of our raw milk dealers are very good indeed. Of the 73 counts which were over 40 thousand per c.c., 18 or approximately 25 per cent were obtained from just two dealers, while 35 or about 48 per cent were obtained from seven dairies. This leaves comparatively few to be distributed amongst the others.

There were also examined a total of 92 samples of chocolate dairy drink, of these three were spoiled by spreaders, 76.4 per cent graded special, 9.0 per cent from 15,000-40,000, 9.0 per cent from 40,000-100,000, .1 per cent from 100,000-400,000, and 4.5 per cent over 400,000.

Only about half of our street samples were examined for bacterial count, those which gave too high a count being of course singled out for a retest. All the samples were tested by the methylene blue reductase test; 1520 samples gave only 10 which did not grade No. 1 by this test.

The average butterfat test obtained from these 1517 samples was 4.02 per cent. The average varied little throughout the year, the maximum being 4.26 per cent in November and the minimum 3.91 per cent in April. The average butterfat content for the chocolate dairy drink was 2.63 per cent.

From the Lactometer reading and the butterfat content, the solids not fat were calculated on each of these samples and the average was found to be 8.92 per cent. All of these samples were also checked for flavor and examined and graded for the amount of sediment. The average grade given for sediment was 9.0 out of a possible 10.

In addition to the regular retail samples, several samples of milk were taken and examined for interested parties. Of 70 samples examined for bacteria, three could not be counted on account of spreaders, 54 were graded special, and five others had counts not over 40 thousand. Of 49 cream samples five could not be counted and 23 graded special, and five more were 40 thousand or under. The average butterfat for 79 samples was 4.15 per cent and for 56 cream samples was 24½ per cent.

Some trouble was found in getting our ice cream to rigorously comply with the bacterial standards set out in the Health Act. Out of 42 samples taken for examination four counts were spoiled by spreaders, 18 samples had counts of 15 thousand or less, and seven more not over 100 thousand. Thirteen or approximately one-third were thus above the 100 thousand mark. The total number of samples obtained, however, was rather small.

All the milk from individual producers coming into the city plants has been submitted to the methylene blue test each week. The total number of samples examined was 10,443, of which 433 or about 4.2 per cent failed to grade "number one," under the test. In addition, some 151 special samples were run for the information of producers trying to locate the source of their trouble, of which eight failed to meet the requirements. All of these along with the 1520 distributor samples gives a grand total of 13,634 samples, of which 461 failed to make the No. 1 class.

During the year regular examination was made for us almost daily of the city water. None of the samples examined gave a positive colon test and none gave counts of over 100 per c.c. The highest counts, obtained at the time of the spring run-off in March, were 45, 27, and 20. The next highest count was 15 obtained from one sample in June. All the others were below this figure. Frequent sampling was done at the Civic Block for tests for the amount of free chlorine in the water and at no time was it found to be deficient.

Samples of water from the swimming pools, both public and private, were taken either personally or for us by the Engineer's Department for bacterial examination. The total number of samples obtained was 273. Of these, 183 gave counts of 10 or under and 35 were above the 200 mark. No sample gave a positive test for colon organisms. General supervision was given to the swimming pools throughout the year. Solutions were made up and supplied for testing the water for the amount of free chlorine, and for copper and suitable standards furnished as required. Little trouble was experienced with "algæ" in any of the pools this year. Occasional tests were also made for the alkalinity.

The sewage plants during the year ran with a minimum of trouble and practically no work was done in this connection.